

# ITD Software Development

## Budget Guidelines for Toolset Upgrades

### 2017-2019 Biennium

#### Development Toolset Upgrades

The ITD Software Development Division supports many software development tools and languages. ITD upgrades to new versions of our tools and languages on a regular basis. This maintains a strong security posture and prevents obsolescence of customer applications. Upgrades generally involve re-compiling applications using the newest version of the tool or language, then unit testing the application. The time required to upgrade varies, depending on the tool being upgraded and the severity of the upgrade.

Following is a list of software components that will likely need upgrades in the 2017-2019 biennium. We've provided a budgeting estimate of the average time required to upgrade each tool and language. We ask that customers budget for the anticipated number of upgrades per biennium. Please contact your Software Development team leader to determine which of these technologies you may use.

Software Component	Anticipated Number of Upgrades in 2017-2019 Biennium	Number of Hours per Upgrade
PowerBuilder	1	32 hours per Application
DB2	1	32 hours per Application
Adabas	1	32 hours per Application
Oracle	1	12 hours per Application
SQL Server	1	12 hours per Application
InfoSphere Change Data Capture	1	40 hours per Application
WebSphere	1	40 hours per Application
.Net	1	16 hours per Application
Ionic Framework (mobile development)	1	24 hours per Application
Cobol	1	16 hours per Agency per upgrade
Natural	1	16 hours per Agency per upgrade
Drupal	8	4 hours per Website
Address Verification Tools	24 2	1 hours per Upgrade – Files 8 hours per Upgrade – Version
AEM (Adobe Experience Manager)	2	2 hours per published form
ILINX Capture	2	2 hours per profile

<b>Software Component</b>	<b>Anticipated Number of Upgrades in 2017-2019 Biennium</b>	<b>Number of Hours per Upgrade</b>
ILINX Email Import	2	2 hours per profile
ILINX Automated Report Management (ARM)	2	2 hours per profile
FileNet Case Foundation (BPM)	4	Effects estimated to be minimal
FileNet Content Foundation (Content Manager)	4	Effects estimated to be minimal
FileNet eForms	0	eForms are being phased out
FileNet Department Applications	4	2 hours per .net Application
FileNet Department Applications	4	2 hours per Java application
CONNEX	1	12 hours per Application
Crystal Reports	1	2 hours per Report
Crystal Reports Enterprise	1	24 hours per Application
Cognos Reports	4	4 hours per Report (fix packs included)
Cognos Transformer	4	4 hours per cube (fix packs included)
DataStage (ETL)	1	16 hours per Application
SSIS (ETL)	4	4 hours per Application (fix packs included)
Informatica	1	16 hours per Application
Master Client Index (Initiate)	1	80 hours per Application
Job Scheduler (UC4)	1	8 hours per Agency
Security Vulnerability Discovery	2	32 hours per Application
Security Vulnerability Remediation	2	Requires estimate - dependent on vulnerabilities